

James Rodger Fleming

Science, Technology, and Society Program
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CURRENT AFFILIATION

Charles A. Dana Professor and Director of Science, Technology, and Society, Colby College

EDUCATION

Princeton University, Ph.D. History, 1988; M.A. History, 1984
Colorado State University, M.S. Atmospheric Science, 1973
Pennsylvania State University, B.S. Astronomy, 1971

ACADEMIC AWARDS, HONORS

Eduard Brückner Prize 2015 for interdisciplinary climate research
American Association for the Advancement of Science (AAAS), Fellow
American Meteorological Society, Fellow
International Commission on the History of Meteorology, Founder and first President, 2000-05.
Colorado State University Department of Atmospheric Science Distinguished Alumnus Award, 2015
Society for the History of Technology, Sally Hacker Book Prize, 2011
American Meteorological Society, Louis J. Battan Author's Award, 2011

VISITING APPOINTMENTS AND FELLOWSHIPS

Smithsonian Institution Research Associate, 2016-19
Stockholm University, International Meteorological Institute, Visiting Researcher, 2015
Columbia University, Visiting Professor in History, 2013-14
Woods Hole Oceanographic Institute, H. Burr Steinbach Visiting Scholar, 2011
Chemical Heritage Foundation, Gordon Cain Conference Fellow, 2010-11
Woodrow Wilson International Center for Scholars, Public Policy Scholar, 2006-07
AAAS, Roger Revelle Fellowship in Global Stewardship, 2006-07
U.S. National Academy of Sciences, Visiting Scholar, 2006-07
National Air and Space Museum, Charles A. Lindbergh Chair in Aerospace History, 2005-06
NSF Scholar's Award, "Carbon Dioxide Theory of Climate Change," 2001-05
Scripps Institution of Oceanography, William E. and Mary B. Ritter Memorial Fellowship, 2003
Harvard University, Visiting Scholar, History of Science, 1999-2000
Massachusetts Institute of Technology, Visiting Scholar, STS Program, 1992-94
National Endowment for the Humanities Sabbatical Fellowship, 1992-93
Yale University, Frederick W. Beinecke Fellow, 1992
American Philosophical Society Library, Mellon Fellow, 1991
Smithsonian Institution, Fellow, Joseph Henry Papers, 1985-87

EDITORIAL

Palgrave Studies in the History of Science and Technology, series editor,
<http://www.palgrave.com/us/series/14581#>
Bulletin of the American Meteorological Society, <https://journals.ametsoc.org/bams>
Endeavour, Editorial Advisory Board, <https://www.journals.elsevier.com/endeavour/>
Histories, Editorial Board, <https://www.mdpi.com/journal/histories>

BOOKS

- FIRST WOMAN: Joanne Simpson and the Tropical Atmosphere*. Oxford University Press, 2020.
- Inventing Atmospheric Science: Bjerknes, Rossby, Wexler, and the Foundations of Modern Meteorology*. Cambridge, MA: MIT Press, 2016.
- Fixing the Sky: The Checkered History of Weather and Climate Control*. New York: Columbia University Press, 2010. Japanese edition, Shinobu Onizawa, transl. Tokyo: Kinokunya, 2012.
- The Callendar Effect*. Boston: AMS Books, 2007.
- Historical Perspectives on Climate Change*. New York and London: Oxford University Press, 1998.
- Meteorology in America, 1800-1870*. Baltimore: Johns Hopkins University Press, 1990.

EDITIONS

- U.S. National Research Council. *Climate Intervention: Reflecting Sunlight to Cool the Earth and Climate Intervention: Carbon Dioxide Removal and Reliable Storage*. Washington, DC: National Academy of Sciences, 2015. <http://nas-sites.org/americasclimatechoices/other-reports-on-climate-change/2015-2/climate-intervention-reports/>
- Toxic Airs: Body, Place, Planet in Historical Perspective*, James Rodger Fleming and Ann Johnson, eds. University of Pittsburgh Press, 2014.
- Klima. Osiris* vol. 26 (2011). James Rodger Fleming and Vladimir Jankovic, eds.
- Globalizing Polar Science: Reconsidering the International Polar and Geophysical Years*. Roger D. Launius, James Rodger Fleming, and David H. DeVorkin, eds. New York: Palgrave, 2010.
- Climate Change and Anthropogenic Greenhouse Warming: A selection of key articles, 1824-1995, with interpretive essays*. National Science Foundation Digital Library, 2008.
- Intimate Universality: Local and Global Themes in the History of Weather and Climate*. James Rodger Fleming, Vladimir Jankovic, and Deborah R. Coen, eds. Science History Publications/USA, 2006.
- The Papers of Guy Stewart Callendar*, digital edition. James Rodger Fleming and Jason Thomas Fleming, ed. Boston: AMS Books, 2007.
- Weathering the Storm: Sverre Petterssen, the D-Day Forecast and the Rise of Modern Meteorology*. Boston: AMS Books, 2001.
- Historical Essays on Meteorology, 1919-1995*. Boston: AMS Books, 1996.
- Science, Technology and the Environment: Multidisciplinary Perspectives*. James Rodger Fleming and Henry A. Gemery, eds. Akron: University of Akron Press, 1994.
- International Bibliography of Meteorology: From the Beginning of Printing to 1889*. 4 vols. In one. James Rodger Fleming and Roy E. Goodman, eds. Upland, Pa.: Diane, 1994.
- Guide to Historical Resources in the Atmospheric Sciences*. Boulder: National Center for Atmospheric Research, 1989. Revised online edition, 1997.

RECENT PEER-REVIEWED ARTICLES AND BOOK CHAPTERS

- “Terraforming Planets, Geoengineering Earth,” in *Nature Remade: Engineering Life, Envisioning Worlds*, Luis Campos, Michael R. Dietrich, Tiago Saraiva, and Chris Young, eds. Chicago: University of Chicago Press, in press.
- “Civilization, Climate, and Ozone: Ellsworth Huntington’s ‘Big’ Views on Biophysics, Biocosmics, and Biocracy,” In *Weather, Climate and the Geographical Imagination*, Martin Mahoney and Samuel Randalls, eds. Pittsburgh: University of Pittsburgh Press, 2010.
- “Excuse Us, While We Fix the Sky: WEIRD Supermen and Climate Engineering,” 23-28 in *Men and Nature. Perspectives*, Issue 2017, no 4. Munich: Rachel Carson Center.
- “Weather and Climate as Shape-Shifting Nouns: Gordian Knots of Understanding and Prevision,” *History of Meteorology* 7 (2015): 1-13.
- “The Checkered Past of Weather and Climate Control and Its Troubling Prospects.” *Klimagerechtigkeit und Klimaethik*, Angela Kallhoff, ed. Vienna: Wiener Reihe, Themen der Philosophie, 2015, 171-180.

“Climate, Change, History,” *Environment and History* 20 (2014): 577-586.

“Climate Physicians and Surgeons.” *Environmental History* 19 (April 2014): 338-345.

RECENT INVITED LECTURES

AAAS; American Historical Association, IUGG keynote, Chemical Heritage Foundation; Chinese Meteorological Agency; ECSSR Abu Dhabi; Linda Hall Library; NASA Goddard; Rachel Carson Center; Royal Anthropological Institute, Royal Geographical Society, U.S. House of Representatives; *Universities*: Aarhus, Bergen, Berlin, Bonn; Carnegie Mellon, Colorado State, CRNS Paris, Georgia Tech, Grinnell, Illinois, Kansas, Kiel, McGill, Maine, Manchester, Minnesota, M.I.T., Nottingham, Oregon, Oregon State, Oslo, Penn State, Potsdam, Royal Institute of Technology (Stockholm), Rutgers, UC Santa Cruz, Waikato, Western Ontario, Woods Hole, Paris

COURSES TAUGHT

Science, Technology and Society; Revolutions in Science; Technology Matters; The Craft of Research; Weather, Climate and Society; Big History: Critique and Counterproposal; Origins Seminar; Human/Nature in the 21st Century; History of Climate Change and Global Governance (at Columbia University); Carbon Dioxide Seminar; Digital Projects in History; History of Science in America; Body, Place, Planet; Medicine and Society; Climate Change History and Public Policy; Earth System Scientists; Global Environmental History; Technology, War and Society; Environment and Society; Cartesian Legacies; Native Natural Knowledge; Science in the Federal Government; Astronomy Since 1609; Technology and the Millennium

PH.D. SUPERVISION

Yale University, Graduate Ph.D. Committee of Rachel Rothschild (Ph.D. awarded 2015)
 Michigan State University, Ph.D. Committee of Gabriel Henderson (Ph.D. awarded 2014)
 Georgia Institute of Technology, Ph.D. Committee of Angelina Long (Ph.D. awarded 2013)
 University of Manchester, UK, Ph.D. Committee (viva) of Alexander Hall (Ph.D. awarded 2012)
 L’Ecole des Hautes Etudes en Sciences Sociales – Paris, Sebastian Grevs mühl (Ph.D. awarded 2012)
 University of Pennsylvania, Ph.D. Committee of Roger Turner (Ph.D. awarded 2010)
 University of Maine—Orono, Ph.D. Committee of Louis McNalley (Ph.D. awarded 2004)

CURRENT AND RECENT SERVICE

Consultant, The Goddard Project, Societal implications of negative emissions technologies; Advisor, “Making Climate History,” Leverhulme Trust grant to University of Cambridge; History of Science Society Member of Council; AAAS Member of Council; National Research Council Committee on Geoengineering; American Geophysical Union History Committee; American Meteorological Society History Committee, editor, and chair of the Historical Research Network; Intergovernmental Panel on Climate Change contributing author (AR4) and expert reviewer (AR5); Chair of Interdisciplinary Studies (Colby College); Director of the Science, Technology, and Society Program (Colby College); Arts and Humanities Center theme co-director, “Revolutions,” 2016-17 and theme seminar leader “Origins,” 2017-18 (Colby College)